

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/ 564,264  
Source: IFWP  
Date Processed by STIC: 1-20-06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 01/20/2006

PATENT APPLICATION: US/10/564,264

TIME: 12:06:27

Input Set : A:\AM100904 (05-12-04).ST25.txt

Output Set: N:\CRF4\01202006\J564264.raw

```

3 <110> APPLICANT: Wyeth Holdings Corporation
5 <120> TITLE OF INVENTION: RECOMBINANT EXPRESSION OF STREPTOCOCCUS PYOGENES CYSTEINE
6   PROTEASE AND IMMUNOGENIC COMPOSITIONS THEREOF
8 <130> FILE REFERENCE: AM100904
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/564,264
C--> 10 <141> CURRENT FILING DATE: 2006-01-09
10 <160> NUMBER OF SEQ ID NOS: 15
12 <170> SOFTWARE: PatentIn version 3.2
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 1197
16 <212> TYPE: DNA
17 <213> ORGANISM: Streptococcus pyogenes
19 <400> SEQUENCE: 1
20 atgaataaaa agaaattagg tgtcagatta ttaagtcttt tagcattagg tggatttggt      60
22 cttgctaacc cagtatttgc cgatcaaaac tttgctcgta acgaaaaaga agcaaaagat      120
24 agcgctatca catttatcca aaaatcagca gctatcaaag cagggtgcacg aagcgcagaa      180
26 gatattaagc ttgacaaagt taacttaggt ggagaacttt ctggctctaa tatgtatggt      240
28 tacaatatct ctactggagg atttgttatc gtttcaggag ataaacgttc tccagaaatt      300
30 ctaggatact ctaccagcgg atcatttgac gctaacggta aagaaaacat tgcttccttc      360
32 atggaaagtt atgtcgaaac aatcaaagaa aacaaaaaat tagacactac ttatgctggg      420
34 accgctgaga ttaaacaacc agttgttaaa tctctccttg attcaaaagg cattcattac      480
36 aatcaaggta acccttatac cctattgaca cctgttattg aaaaagtaaa accagggtgaa      540
38 caatcttttg taggtcaaca tgcagctaca ggatgtgttg ctactgcaac tgctcaaatt      600
40 atgaaatata ataattaccc taacaaaggg ttgaaagact acacttacac actaagctca      660
42 aataacccat atttcaacca tcctaagaac ttgtttgcag ctatctctac tagacaatac      720
44 aactggaaca acatcttacc tacttatagc ggaagagaat ctaacgttca aaaaatggcg      780
46 atttcagaat tgatggctga tgttggtatt tcagtagaca tggattatgg tccatctagt      840
48 ggttctgcag gtagctctcg tgttcaaaga gccttgaaag aaaactttgg ctacaaccaa      900
50 tctgttcacc aaatcaaccg tggcgacttt agcaaaacaag attgggaagc acaaattgac      960
52 aaagaattat ctcaaaacca accagtatac taccaagggtg tcggtaaagt aggcggacat      1020
54 gcctttgtta tcgatgggtg tgacggacgt aacttctacc atgttaactg ggggttgggg      1080
56 ggagtctctg acggcttctt ccgtcttgac gcactaaacc cttcagctct tgggtactgg      1140
58 ggcggcgcag gcggcttcaa cggttaccaa agtgctgttg taggcatcaa accttag      1197
61 <210> SEQ ID NO: 2
62 <211> LENGTH: 398
63 <212> TYPE: PRT
64 <213> ORGANISM: Streptococcus pyogenes
66 <400> SEQUENCE: 2
68 Met Asn Lys Lys Lys Leu Gly Val Arg Leu Leu Ser Leu Leu Ala Leu
69 1          5          10          15
72 Gly Gly Phe Val Leu Ala Asn Pro Val Phe Ala Asp Gln Asn Phe Ala
73          20          25          30
76 Arg Asn Glu Lys Glu Ala Lys Asp Ser Ala Ile Thr Phe Ile Gln Lys

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77          35          40          45
80 Ser Ala Ala Ile Lys Ala Gly Ala Arg Ser Ala Glu Asp Ile Lys Leu
81          50          55          60
84 Asp Lys Val Asn Leu Gly Gly Glu Leu Ser Gly Ser Asn Met Tyr Val
85 65          70          75          80
88 Tyr Asn Ile Ser Thr Gly Gly Phe Val Ile Val Ser Gly Asp Lys Arg
89          85          90          95
92 Ser Pro Glu Ile Leu Gly Tyr Ser Thr Ser Gly Ser Phe Asp Ala Asn
93          100          105          110
96 Gly Lys Glu Asn Ile Ala Ser Phe Met Glu Ser Tyr Val Glu Gln Ile
97          115          120          125
100 Lys Glu Asn Lys Lys Leu Asp Thr Thr Tyr Ala Gly Thr Ala Glu Ile
101          130          135          140
104 Lys Gln Pro Val Val Lys Ser Leu Leu Asp Ser Lys Gly Ile His Tyr
105 145          150          155          160
108 Asn Gln Gly Asn Pro Tyr Asn Leu Leu Thr Pro Val Ile Glu Lys Val
109          165          170          175
112 Lys Pro Gly Glu Gln Ser Phe Val Gly Gln His Ala Ala Thr Gly Cys
113          180          185          190
116 Val Ala Thr Ala Thr Ala Gln Ile Met Lys Tyr His Asn Tyr Pro Asn
117          195          200          205
120 Lys Gly Leu Lys Asp Tyr Thr Tyr Thr Leu Ser Ser Asn Asn Pro Tyr
121          210          215          220
124 Phe Asn His Pro Lys Asn Leu Phe Ala Ala Ile Ser Thr Arg Gln Tyr
125 225          230          235          240
128 Asn Trp Asn Asn Ile Leu Pro Thr Tyr Ser Gly Arg Glu Ser Asn Val
129          245          250          255
132 Gln Lys Met Ala Ile Ser Glu Leu Met Ala Asp Val Gly Ile Ser Val
133          260          265          270
136 Asp Met Asp Tyr Gly Pro Ser Ser Gly Ser Ala Gly Ser Ser Arg Val
137          275          280          285
140 Gln Arg Ala Leu Lys Glu Asn Phe Gly Tyr Asn Gln Ser Val His Gln
141          290          295          300
144 Ile Asn Arg Gly Asp Phe Ser Lys Gln Asp Trp Glu Ala Gln Ile Asp
145 305          310          315          320
148 Lys Glu Leu Ser Gln Asn Gln Pro Val Tyr Tyr Gln Gly Val Gly Lys
149          325          330          335
152 Val Gly Gly His Ala Phe Val Ile Asp Gly Ala Asp Gly Arg Asn Phe
153          340          345          350
156 Tyr His Val Asn Trp Gly Trp Gly Gly Val Ser Asp Gly Phe Phe Arg
157          355          360          365
160 Leu Asp Ala Leu Asn Pro Ser Ala Leu Gly Thr Gly Gly Gly Ala Gly
161          370          375          380
164 Gly Phe Asn Gly Tyr Gln Ser Ala Val Val Gly Ile Lys Pro
165 385          390          395
168 <210> SEQ ID NO: 3
169 <211> LENGTH: 27
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial

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173 <220> FEATURE:
174 <223> OTHER INFORMATION: synthetic oligonucleotide
176 <400> SEQUENCE: 3
177 ccatggaacc agttgttaaa tctctcc 27
180 <210> SEQ ID NO: 4
181 <211> LENGTH: 29
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: synthetic oligonucleotide
188 <400> SEQUENCE: 4
189 ggatcctaag gtttgatgcc tacaacagc 29
192 <210> SEQ ID NO: 5
193 <211> LENGTH: 27
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial
197 <220> FEATURE:
198 <223> OTHER INFORMATION: synthetic oligonucleotide
200 <400> SEQUENCE: 5
201 ccatggatca aaactttgct cgtaacg 27
204 <210> SEQ ID NO: 6
205 <211> LENGTH: 30
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: synthetic oligonucleotide
212 <400> SEQUENCE: 6
213 ggatccttat ttaatctcag cggtaccagc 30
216 <210> SEQ ID NO: 7
217 <211> LENGTH: 23
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: synthetic oligonucleotide
224 <400> SEQUENCE: 7
225 gctacaggat gtgttgctac tgc 23
228 <210> SEQ ID NO: 8
229 <211> LENGTH: 23
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: synthetic oligonucleotide
236 <400> SEQUENCE: 8
237 gcagtagcaa cacatcctgt agc 23
240 <210> SEQ ID NO: 9
241 <211> LENGTH: 30
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:

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246 <223> OTHER INFORMATION: synthetic oligonucleotide
248 <400> SEQUENCE: 9
249 agatctaagg agatatacat atggacccag 30
252 <210> SEQ ID NO: 10
253 <211> LENGTH: 33
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: synthetic oligonucleotide
260 <400> SEQUENCE: 10
261 agatctttaa gaaggagata tacatatgga acc 33
264 <210> SEQ ID NO: 11
265 <211> LENGTH: 39
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: synthetic oligonucleotide
272 <400> SEQUENCE: 11
273 agatctgcac ataactttaa gaaggagata tacatatgg 39
276 <210> SEQ ID NO: 12
277 <211> LENGTH: 59
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: synthetic oligonucleotide
284 <400> SEQUENCE: 12
285 agatctaact tgactaaatt cgaacagcac ataactttaa gaaggagata tacatatgg 59
288 <210> SEQ ID NO: 13
289 <211> LENGTH: 30
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial
293 <220> FEATURE:
294 <223> OTHER INFORMATION: synthetic oligonucleotide
296 <400> SEQUENCE: 13
297 ctcgagctaa ggtttgatgc ctacaacagc 30
300 <210> SEQ ID NO: 14
301 <211> LENGTH: 27
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial
305 <220> FEATURE:
306 <223> OTHER INFORMATION: synthetic oligonucleotide
308 <400> SEQUENCE: 14
309 ccatggatca aaactttgct cgtaacg 27
312 <210> SEQ ID NO: 15
313 <211> LENGTH: 30
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial
317 <220> FEATURE:
318 <223> OTHER INFORMATION: synthetic oligonucleotide

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320 &lt;400&gt; SEQUENCE: 15

321 ctcgagctaa ggtttgatgc ctacaacagc

30

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/564,264

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15

**VERIFICATION SUMMARY**

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Input Set : A:\AM100904 (05-12-04).ST25.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date